

Comparisons of Job Characteristics

Focus Occupation: [Electricians \(47-2111\)](#)

Associated Occupation: [Telecommunications Equipment Installers and Repairers, Except Line Installers \(49-2022\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 62

Focus Occupation: Electricians (47-2111)

Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Telecommunications	3.9	19.3	10.4	<< Extensive education and/or training may be required
Computers and Electronics	8.4	15.4	10.1	<< Extensive education and/or training may be required
Mechanical	6.8	12.4	16.5	>> Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 80

Focus Occupation: Electricians (47-2111)

Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Troubleshooting	4.5	11.8	12.3	0 Current skill level may be sufficient
Quality Control Analysis	5.9	11.5	11.0	0 Current skill level may be sufficient
Operation Monitoring	6.6	11.4	10.5	0 Current skill level may be sufficient
Repairing	3.4	10.6	11.6	0 Current skill level may be sufficient
Equipment Maintenance	3.5	10.3	10.3	0 Current skill level may be sufficient
Operation and Control	5.4	10.0	8.8	< A higher skill level may be required
Equipment Selection	3.3	9.2	8.4	0 Current skill level may be sufficient
Installation	1.7	7.7	9.4	> Skill level is likely sufficient
Programming	2.2	5.2	1.4	<< Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 95			
Focus Occupation: Electricians (47-2111)					
Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Visual Color Discrimination	6.4	12.9	12.8	0	Current ability level may be sufficient
Finger Dexterity	7.6	12.0	11.8	0	Current ability level may be sufficient
Manual Dexterity	6.5	11.4	11.6	0	Current ability level may be sufficient
Visualization	7.5	11.0	12.2	>	Current ability level is likely sufficient
Gross Body Equilibrium	3.2	8.6	8.2	0	Current ability level may be sufficient
Gross Body Coordination	3.9	8.3	7.3	<	Some improvement in abilities may be required
Glare Sensitivity	2.6	6.1	5.9	0	Current ability level may be sufficient
Night Vision	2.1	5.9	3.9	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 91
Focus Occupation: Electricians (47-2111) Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)		
Work Activities	Exclusivity of Activity	
Analyze operation of malfunctioning electrical or electronic equipment	68	
Climb ladders, scaffolding, or utility or telephone poles	56	
Distinguish colors	44	
Drive automobile, van, or light truck	53	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install electronic power, communication, control, or security equipment or systems	76	
Install/connect electrical equipment to power circuit	57	
Install/string electrical or electronic cable or wiring	76	
Maintain electrician's tools or equipment	92	
Maintain records, reports, or files	5	
Move or fit heavy objects	8	
Perform safety inspections in industrial, manufacturing or repair setting	32	
Plan layout of electrical/electronic equipment installation	89	
Plan or organize work	51	
Read blueprints	10	

Read technical drawings	7
Repair electronic components, equipment, or systems	74
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Replace electronic components	63
Solder electrical or electronic connections or components	55
Splice electric cable	85
Splice electric or communications trunk lines	92
Test electrical/electronic wiring, equipment, systems or fixtures	54
Test electronic or electrical circuit connections	66
Understand service or repair manuals	40
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use interpersonal communication techniques	10
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Electricians (47-2111)

Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.